

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows. The claims are in the format as required by 37 C.F.R. § 1.121.

1. (Currently amended) A method for searching an applied data model, comprising:
translating a query to a set of statements operable to search the applied data model to an arbitrary level,
wherein the applied data model is a representation of an arbitrarily complex environment and comprises at least one component and a relationship corresponding to the at least one component,
wherein the at least one component represents [[an]] a physical or logical entity in the arbitrarily complex environment,
wherein the relationship represents an association between the physical or logical entity and other physical or logical entities in the arbitrarily complex environment,
and
wherein the query is a component query or a relationship query;
searching the applied data model to the arbitrary level based on the set of statements translated from the query,
wherein the query is in a first query language, and
wherein the set of statements is capable of execution by a database management system supporting a second query language;
producing a set of replies to the set of statements, wherein the set of replies includes at least one component or one relationship at the arbitrary level; and
processing the set of replies according to the query.
2. (Original) The method of claim 1, wherein the set of statements is tailored to a table schema.
3. (Original) The method of claim 2, wherein the table schema implements a data model.
4. (Original) The method of claim 3, wherein the table schema represents a graph of the applied data model.

5. (Original) The method of claim 4, wherein the set of statements is operable to perform a graph search.
6. (Original) The method of claim 5, wherein the graph search is a breadth first graph search.
7. (Original) The method of claim 6, wherein the set of statements is in SQL.
8. (Currently amended) The method of claim 2, wherein processing the set of replies comprises structuring the results based on the query and returning the processed results.
- 9.-11. (Canceled).

12. (Currently amended) A computer readable medium having code for modeling an arbitrarily complex environment, wherein the code is embodied within computer readable medium, the code comprising instructions for:

translating a query to a set of statements operable to search an applied data model to an arbitrary level,

wherein the applied data model is a representation of the arbitrarily complex environment and comprises at least one component and a relationship corresponding to the at least one component,

wherein the at least one component represents [[an]] a physical or logical entity in the arbitrarily complex environment,

wherein the relationship represents an association between the physical or logical entity and other physical or logical entities in the arbitrarily complex environment, and

wherein the query is a component query or a relationship query;
searching the applied data model to the arbitrary level based on the set of statements translated from the query,

wherein the query is in a first query language, and

wherein the set of statements is capable of execution by a database management system supporting a second query language;

producing a set of replies to the set of statements wherein the set of replies includes at least one component or one relationship at the arbitrary level; and
processing the set of replies according to the query.

13. (Original) The computer readable medium of claim 12, wherein the set of statements is tailored to a table schema.

14. (Original) The computer readable medium of claim 13, wherein the table schema implements a data model.

15. (Original) The computer readable medium of claim 14, wherein the table schema represents a graph of the applied data model.

16. (Original) The computer readable medium of claim 15, wherein the set of statements is operable to perform a graph search.

17. (Original) The computer readable medium of claim 16, wherein the graph search is a breadth first graph search.

18. (Original) The computer readable medium of claim 17, wherein the set of statements is in SQL.

19.-22. (Canceled).

23. (Currently amended) A method for searching an applied data model, comprising:
translating a query to a set of statements operable to search the applied data model to an arbitrary level,
wherein the applied data model is a representation of an arbitrarily complex environment and comprises at least one component and a relationship corresponding to the at least one component,
wherein the at least one component represents [[an]] a physical or logical entity in the arbitrarily complex environment,
wherein the relationship represents an association between the physical or logical entity and other physical or logical entities in the arbitrarily complex environment, and
wherein the query is a component query or a relationship query in a first query language,
wherein the set of statements is capable of execution by a database management system supporting a second query language, and
wherein the set of statements is tailored to a table schema which implements the applied data model;
searching the applied data model to the arbitrary level based on the set of statements, wherein the set of statements implements a graph search;
producing a set of results to the set of statements, wherein the set of results includes at least one component or one relationship at the arbitrary level; and
processing the set of results according to the query, wherein processing the set of results includes structuring the set of results based on the query.
24. (Previously Presented) The method of claim 1, wherein the query specifies the arbitrary level.
25. (Previously Presented) The method of claim 12, wherein the query specifies the arbitrary level.
26. (Previously Presented) The method of claim 23, wherein the query specifies the arbitrary level.